# Ritesh Agarwal

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## SUMMARY

A highly motivated and results-oriented software engineer with 15+ years of experience in C and distributed systems, leveraging expertise in building scalable and reliable software solutions.

## EXPERIENCE

**Principal Software Development Engineer**                                     Apr 2024 - Present
Zscaler                                                                          Pune, MH, India

- Collaborated with cross-functional teams to define project requirements and deliver multiple high-quality/impact customer-focused features, resulting in a measureable increase of Net Annual Recurring Revenue(NARR).
- Expedited resolution of critical blocker issues across development, release and production (mainline) branches, maintaining continous delivery pipelines and ensuring production stability.
- Enhanced team productivity and code quality by triaging bugs for efficient resolution, conducting thorough code reviews, and mentoring team members to accelerate their contributions.
- Streamlined weekly reporting processes by gathering and summarizing team status, enhancing visibility into project health for senior management and cross-functional partners.
- Spearheaded engineering initiatives to enhance database component reliability by reducing Recovery Point Objectives (RPO) and Recovery Time Objectives (RTO) through in-depth analysis and benchmarking of industry-standard backup and restore methods.
- Acted as the on-call development engineer for the India Time Zone (IST), providing frontline support for production systems and resolving critical alerts and incidents on a rotational basis.
- Implemented structured interviewing techniques to ensure standardized, fair, and effective candidate evaluation, enhancing both candidate experience and organizational brand value.

### SKILLS

- C, PostgreSQL, Redis, FreeBSD, RAFT, Perl, Shell Scripting, Python, Gdb, Data Strucutres, Algorithms, Gemini/ChatGPT GenAI, PagerDuty

**Senior Principal Software Engineer II**                                       2019 - Apr 2024
Pubmatic                                                                         Pune, MH, India

- Led the development of a new feature that resulted in a 15% increase in user engagement.
- Mentored junior engineers and conducted code reviews to ensure code quality and adherence to best practices.
- Collaborated with cross-functional teams to define project requirements and deliver high-quality software solutions.

**Software Engineer**                                                           Jun 2020 - Oct 2022
Microsoft                                                                        Redmond, WA

- Developed and maintained software for [Product/Team].
- Contributed to the design and implementation of new features.
- Fixed bugs and improved the performance of existing code.

## Education

**Stanford University**                                                         Sept 2016 - Jun 2020
Master of Science in Computer Science                                           Stanford, CA

- GPA: 3.8/4.0
- Relevant Coursework: Algorithms, Data Structures, Artificial Intelligence, Machine Learning

## Projects

**Personal Website | HTML, CSS, JavaScript, React**                            Oct 2023 - Present

- Developed a personal website to showcase my portfolio and skills.
- Implemented a responsive design to ensure optimal viewing on all devices.

## Skills

Languages: Python, Java, C++, JavaScript

Frameworks: React, Node.js, Django, Flask

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, Docker, Kubernetes, Jenkins